

FIG. 1

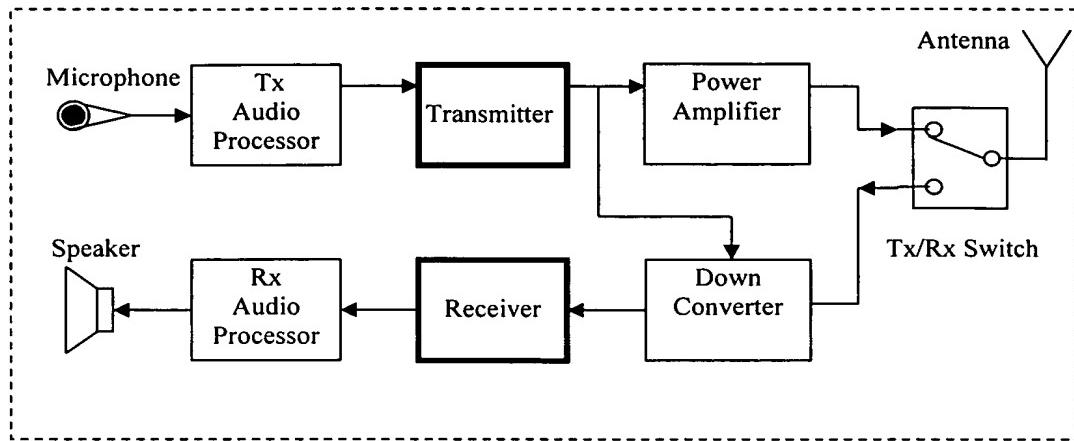


FIG. 2

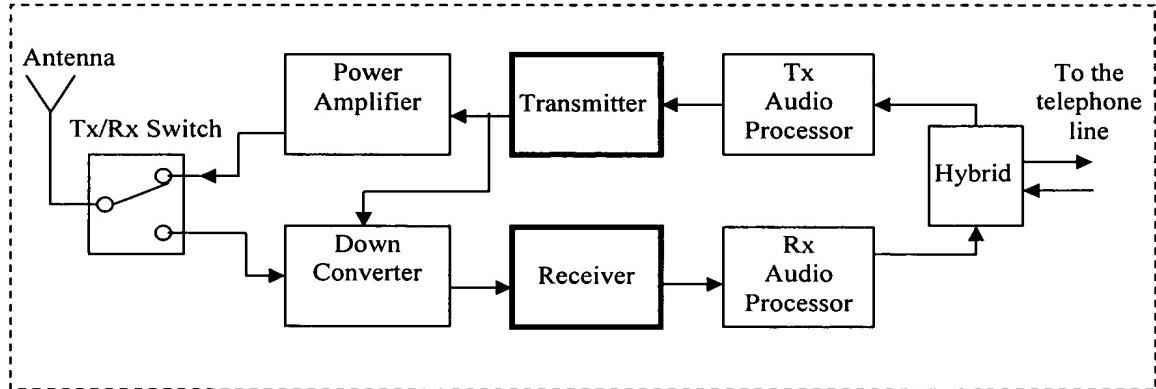


FIG. 3A

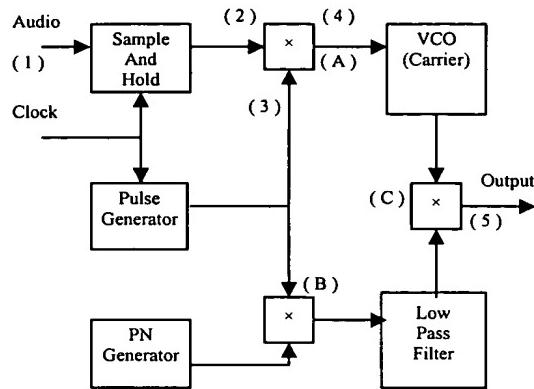


FIG. 3B

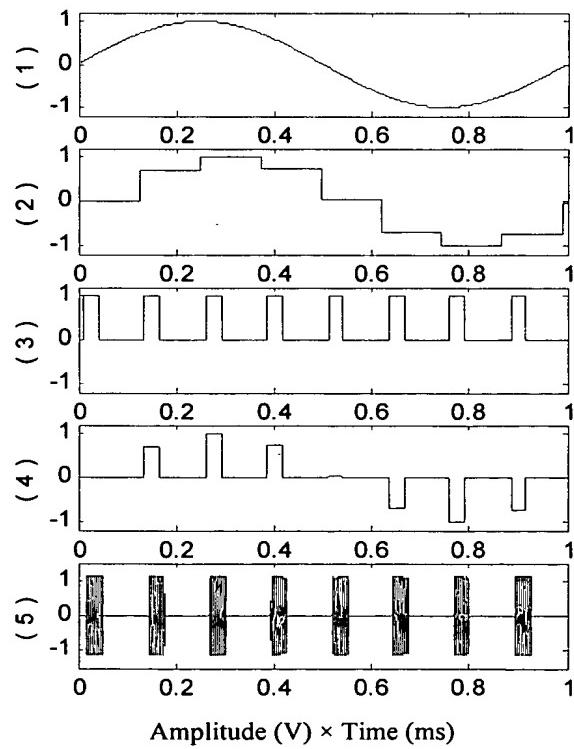


FIG. 4A

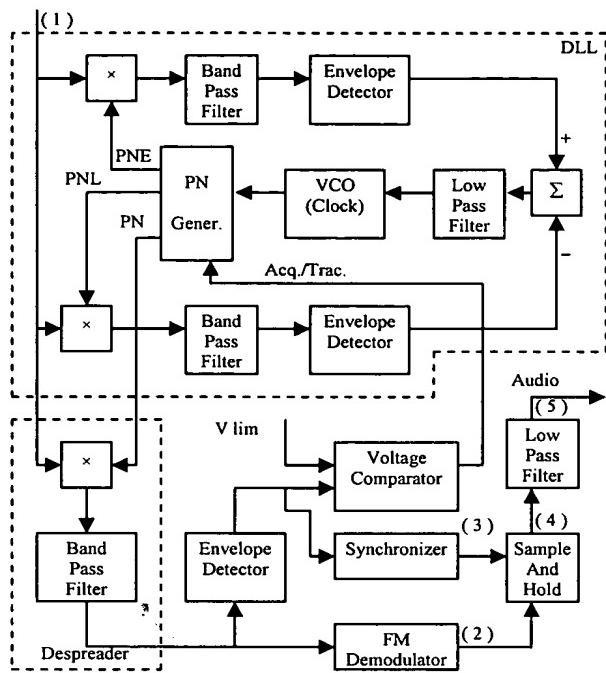


FIG. 4B

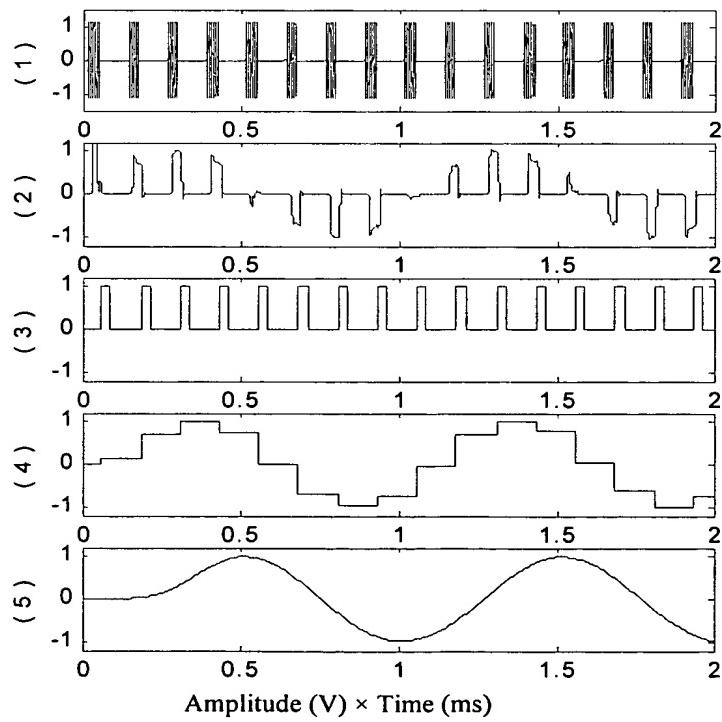


FIG. 5

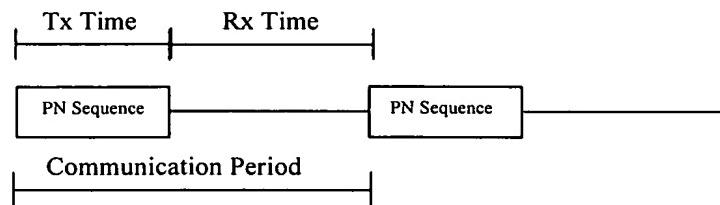


FIG. 6

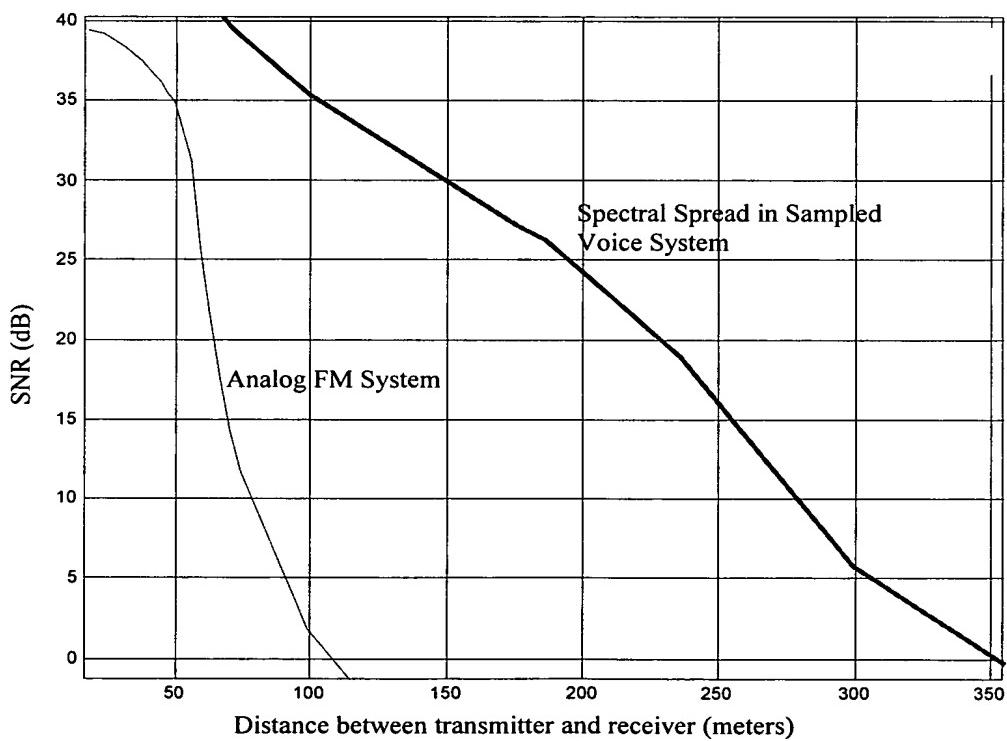


Table 1

<b>Parameters of the Spectral Spread in Sampled Voice system used for comparison with the analog FM system</b>	
Audio Bandwidth	200 Hz to 3.4 KHz
Communication period	70µs
PN length (number of chips)	15 chips
transmission time	30µs
receiving time	40µs
PN chip rate	500 Kbps
Carrier transmission bandwidth	1 MHz
Frequency deviation	10 KHz
Despread filter bandwidth	18 KHz
Process gain	21dB
Maximum power spectral density	8dBm
Transmission power	20dBm
Tx and Rx antenna gain	0dBi
Transmission average power	20dBm

Table 2

<b>Parameters of analog FM system used for comparison with the Spectral Spread in Sampled Voice system</b>	
Audio Bandwidth	200 Hz to 3.4 KHz
Carrier transmission bandwidth	26 KHz
Frequency deviation	10 KHz
Tx and Rx antenna gain	0dBi
Transmission average power	-3dBm